

NATIONAL INSTITUTE OF BIOMEDICAL GENOMICS

(A premier Autonomous Institute of Dept. of Biotechnology, Ministry of Science & Technology, Govt. of India)

TENDER DOCUMENT

NIT No. NIBMG/CCTV/2024-25/011

Date : 04-07-2024

Tender for implementing a CCTV surveillance system in BRIC-NIBMG, Kalyani

July'2024

CRITICAL DATE SHEET

NIT No. NIBMG/CCTV/2024-25/011

Date : 04-07-2024

Published Date

04-07-2024 [06:00 PM]

Bid Document Download / Sale Start Date

05-07-2024 [09:00 AM]

Clarification Start Date

05-07-2024 [09:00 AM]

Clarification End Date

12-07-2024 [06:00 PM]

Bid Submission Start Date

05-07-2024 [09:00 AM]

Bid Submission End Date

25-07-2024 [04:00PM]

Bid Opening Date

26-07-2024 [04:30PM]

Tender for implementing a CCTV surveillance system in BRIC-NIBMG, Kalyani.

NIT No. NIBMG/CCTV/2024-25/011

Date : 04-07-2024

Biotechnology Research and Innovation Council-National Institute of Biomedical Genomics (BRIC-NIBMG), a premier Autonomous Institute of Govt. of India. This is the first institution in India explicitly devoted to research, training, translation & service, and capacity-building in biomedical genomics. It is in Kalyani, West Bengal, India, about 50 km. from Kolkata.

Online Tenders are invited in two parts namely Technical Bid (including General Terms & Conditions) and Price Bid for implementing a CCTV surveillance system in BRIC-NIBMG, Kalyani

Tender document can be downloaded from NIBMG website <https://www.nibmg.ac.in> or from Central Public Procurement Portal. Bidders should enrol/register in the e-procurement module of Central Public Procurement Portal through the website: <https://eprocure.gov.in/epublish/app>.

The process of evaluation will be done through a Two Bid System. Both the Technical Bid and the Price bid must be submitted simultaneously to the email address purchase.ict@nibmg.ac.in. The Technical Bid must not be password protected. **The Price Bid must be submitted in a password-protected document**. The bidders who are technically qualified will be subsequently requested to submit their password, at a later date, on another email which will be notified later. Not following the above process will render the bid as unresponsive and result in disqualification of the bid and the EMD may be forfeited under the said circumstances.

Estimated value of the Tender is Rs. 22 lakhs (Twenty-two lakhs). The vendor willing to participate must submit documentary evidence of NEFT of Rs. 44,000/- (Rupees forty-four thousand only) as Earnest Money Deposit (EMD) along with the Technical Bid.

Earnest Money Deposit (EMD): An amount of Rs. 44,000/- (Rupees forty-four thousand only) should be deposited by NEFT directly to the institute **Account No- 0579050053288**, AC/ Name: **NATIONAL INSTITUTE OF BIOMEDICAL GENOMICS**, Bank: **Punjab National Bank**, Branch: **Kalyani**, IFS Code: **PUNB0057920**, proof of transaction advice should be enclosed in technical bid. Failure to deposit Earnest Money will lead to rejection of the tender.

Exemption from EMD shall be governed by Manual for Procurement of Goods 2017 and EMD exemption shall be applicable to firms registered with Central Purchase Organization, NSIC, MSME etc. for item tendered only.

Incomplete or conditional tenders submitted would be summarily rejected. The Director, NIBMG reserves the right to cancel any or all tenders without assigning any reason thereof.

TECHNICAL BID

NIT No. NIBMG/CCTV/2024-25/011

Date : 04-07-2024

I)	Eligibility criteria of a Bidder and OEM:	Documentary proof to be submitted along with Tender
1.	<p>Bidder must be shortlisted in the NIBMG EOI No.: NIBMG/ADMIN/ESTB/2024-2025/003, dated 22-04-2024 [2024_NIBMG_754063_1 Date : 22-Apr-2024]</p> <p>I. M/S Sun Secutech II. M/S Webstep Technologies Pvt. Ltd III. M/S Benchmark Infotech Services Pvt. Ltd IV. M/S Venkatesh IT Solutions Pvt. Ltd V. M/S Agni Infotech</p>	Copy of Email confirmation received from NIBMG
2.	Trade license, GST registration, PAN/TAN, and cancelled cheque of Bidder	Copy of Trade license, GST registration, PAN/TAN, and cancelled cheque of Bidder
3.	OEM must have a positive net worth in last 3 FY	Balance sheet certified by CA
4.	Bidder must have a positive net worth in last 3 FY	Balance sheet certified by CA
5.	An amount of Rs. 44,000/- (Rupees forty-four thousand only) should be deposited by NEFT directly to the institute Account No- 0579050053288, AC/ Name: NATIONAL INSTITUTE OF BIOMEDICAL GENOMICS, Bank: Punjab National Bank, Branch: Kalyani, IFS Code: PUNB0057920.	Proof of transaction advice should be enclosed in the technical bid. Failure to deposit Earnest Money will lead to rejection of the tender.
6.	If OEM and bidder from a country that shares a land border with India will be eligible to bid in the tender only if the bidder is registered with the Competent Authority (The Registered Committee constituted by the Department for Promotion of Industry and Internal Trade)	If applicable, they need to submit relevant documentary evidence.
7.	OEM and Bidder must comply with MII clause of GOI. OEM should have its operational factory in India for 3 years. The address of the Factory license and BIS certificate should be the same.	Relevant documentary evidence is to be submitted along with the Technical Bid
8.	OEM must have a registered office and service center in and around Kolkata.	Relevant documentary evidence is to be submitted along with the Technical Bid
9.	Supplied products must not be declared as EOL / EOS by the OEM in the next 5 years.	Declaration by OEM in Company's letterhead.
10.	Authorisation certificate from OEM for this tender	MAF from OEM for this Tender
11.	The product datasheet of each item must be available on the OEM website for technical verifications	Make, model with product/part code must be submitted along with URL of datasheets for each active items.
12.	All cameras and NVR must be from the same OEM.	Declaration by OEM in Company's letterhead.
13.	OEM and Bidder should not be banned by any organization in India.	Declaration by OEM and Bidder in Company's letterhead.

II)	TERMS AND CONDITIONS:
A	Scope of work:
	1. Supply, Installation, Testing and Commissioning of Goods.
B	Warranty:
	<ol style="list-style-type: none"> 3 years comprehensive and onsite warranty from the OEM for Camera, NVR. 5 years comprehensive and onsite warranty from the OEM for Hard disk and Passive Network cabling items. Each item's warranty must be certified by the OEM by mentioning the product name, model, part code, and machine serial number in the OEM's letterhead.
C	Payments, Penalty and SLA:
	<ol style="list-style-type: none"> Payment will be made after the successful completion of delivery, installation, commissioning, and submission of a complete project document in the accepted format of NIBMG. Delivery of items must be completed by 4 weeks and installation must be completed by 6 weeks. If the Vendor fails to complete the installation in the period mentioned above, LD of 0.5% of total contract value per week of delay, a maximum upto 10% of total contract Value will be deducted from the final bill. 10% of the total estimated value of this tender must be submitted as a Performance Bank Guarantee (PBG) for 39 months within 15 days of receipt of work order. Payment will be made only after successful installation and commission of the items, submission of PBG and submission of complete escalation matrix for support services in Company's letterhead and warranty certificate from OEM as per warranty terms and conditions. Service level agreement (SLA) during the warranty period: Call must be attended either physically or remotely within 1 hour of reporting a call by the end users from Monday to Saturday from 9 am to 6:30 pm and the same must be solved within 24 hours. In case of a delay in solving the problem within 24 hours, a standby device needs to be installed within 36 hours of reporting a call for the items. Only attending a call will be allowed through remote tools but all kinds of repairing, troubleshooting, and replacement activities need to be done physically by sending an engineer at the NIBMG. In case of failure to adhere to the schedule mentioned above, the Director, NIBMG shall have the right to deduct the penalty of Rs.1000/- per day for each call from PBG
D	General Terms and Conditions:
	<ol style="list-style-type: none"> Unit wise price for all the items must be quoted separately but selection of the vendor will be based on total tender amount. NIBMG should have a single point of contact for all kinds products to be used for this solution. Rates shall be quoted inclusive of all charges, levies, GST etc. NIBMG will not bear the liability of any GST variation that may happen after the Tender is published. The bids will be accepted in single stage two bids system i.e., Technical Bid and Financial Bid. All pages of technical bid shall be signed by the bidders. Incomplete or conditional applications submitted would be summarily rejected. The Director, NIBMG reserves the right to cancel any or all applications without assigning any reason thereof. The datasheet from OEM of each product must be submitted along with the technical bids The tender is not transferable.

	<p>6. The contractor shall be responsible for any loss or damage caused to NIBMG owing to negligence on his part.</p> <p>7. Any kind of outsourcing or offloading this job to any another agency will not acceptable.</p> <p>8. NIBMG reserves the right to accept or reject any or all tenders without assigning any reasons.</p> <p>9. No subletting of contract shall be allowed at any point of time of contract.</p> <p>10. All disputes in this connection shall be settled in Kolkata jurisdiction only.</p> <p>11. An email address, phone number or URL of the support call logging portal must be provided by the vendor for reporting all support and preventive calls.</p> <p>12. A complete escalation matrix starting from service engineer to head of the organization must be submitted along with the technical bid.</p> <p>13. Queries or change requests, if any, must be sent with necessary justification and to purchase.ict@nibmg.ac.in within 3 days of floating this tender. No response will be given to a query or change request received after 3 days of floating this tender.</p> <p>14. The cost of any other items which are not mentioned in the BOQ but essential for the completion of the project must be included in the price bid. The institute will not pay the cost of any extra items, if required, for completion of the project.</p> <p>15. The MAC address of the cameras must be registered in the name of OEM. If the MAC address does not match, it means that the device is not created by the original manufacturer, it's only an assembling or a labelling which has been done, and such party shall be immediately rejected.</p>
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III) TECHNICAL SPECIFICATIONS OF PRIMARY ITEMS:

A)	<u>Fixed Lens Network Dome Camera</u>			
Sl. No.	<u>Technical Specification:</u>		Compliance (Yes/No)	Name of product Datasheet file and page number
1	Image Sensor	1/3" Progressive Scan CMOS		
2	Min. illumination	Color: 0.01 Lux @ (AGC ON), B/W: 0 Lux with IR or better		
3	Image Resolution	4MP		
4	Day & Night	IR Cut Filter		
5	Shutter speed	1/3 s to 1/100,000 s		
6	Lens	2.8mm / 4mm (fixed lens) or better		
7	IR range	30m IR or higher		
8	Streaming Type	Dual streams		
9	Video Compression	H.265, H.264		
10	Image Enhancement	BLC, 3D DNR		
11	Image settings	Saturation, brightness, contrast and sharpness adjustable by client software or web browser		
12	Day/Night Switch	Auto/Scheduled/Day/Night		
13	Network Protocol	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS		
14	Preferable analytics	Motion detection, Video tampering, exception		

15	Ethernet Port	1 x RJ45 10M/100M Ethernet port		
16	Power Supply	DC12V, PoE (802.3at /af)		
17	Operating Conditions	-10° C to 50° C or better		
18	Ingress Protection	IP67 Ingress Protection		
19	Certifications	OEM should have BIS, Onvif		
20	General Function	Password protection, privacy mask, watermark		
21	Camera and NVR systems models must support Video management system (VMS)			
22	The MAC address of all products should be registered in the name of the OEM.			
23	Camera & NVR should be from the same OEM for smooth integration.			

B)	<u>Outdoor Fixed Lens Network Bullet Camera</u>			
Sl. No.	<u>Technical Specification:</u>		Compliance (Yes/No)	Name of product Datasheet file and page number
1	Image Resolution	4MP		
2	IR range	30m IR or higher		
3	Image Sensor	1/3" Progressive Scan CMOS or better		
4	Min. illumination	Color: 0.01 Lux @ (AGC ON), B/W: 0 Lux with IR		
5	Day & Night	IR Cut Filter		
6	Shutter speed	1/3 s to 1/100,000 s		
7	Lens	4mm (fixed lens) or equivalent		
8	Streaming Type	Dual streams		
9	Video Compression	H.265, H.264		
10	Image Enhancement	BLC, 3D DNR		
11	Image settings	Saturation, brightness, contrast, and sharpness adjustable by client software or web browser, etc		
12	Day/Night Switch	Auto/Scheduled/Day/Night		
13	Network Protocol	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS,		
14	Preferable analytics	Motion detection, Video tampering, exception		
15	Ethernet Port	1 x RJ45 10M/100M Ethernet port		
16	Power Supply	DC12V, PoE (802.3at /af)		
17	Operating Conditions	-10° C to + 50° C or better		

18	Ingress Protection	IP67 Ingress Protection		
19	General Function	Password protection, privacy mask, watermark		
20	Certifications	OEM should have BIS, Onvif		
21	Camera and NVR systems models must support Video management system (VMS)			
22	The MAC address of all products should be registered in the name of the OEM.			
23	Camera & NVR should be from the same OEM for smooth integration.			

C) Network Video Recorder (NVR) - 32 Channels				
Sl No	Feature	Specification	Compliance (Yes/No)	Name of product Datasheet file and page number
1	Maximum IP Video Input	32 Channels		
2	Bandwidth	256 Mbps or higher		
3	Video Output	One HDMI and one VGA or more		
4	Audio Output	1 Channel, RCA		
5	Decoding format	H.265+, H.265, H.264+, H.264		
6	Recording resolution	Maximum 12 MP resolution supported		
7	Synchronous Playback	16 Channels		
8	Network Protocol	TCP/IP, DHCP, IPv4, DNS, DDNS, NTP, RTSP, SMTP, SNMP, NFS, iSCSI, iSUP, UPnP, HTTP, HTTPS		
9	OnVIF	Shall support		
10	Network Interface	Two RJ45 (10/100/1000 Mbps) ports		
11	Serial Ports	RS232, RS485		
12	Number of HDD Slots	Upto 4 SATA Interfaces		
13	HDD Capacity	Upto 10 TB Hard Disk for Each SATA		
14	Alarm I/O	16/4 or better		
15	USB	2 x USB2.0 and 1 x USB3.0		
16	Power Requirement	100 - 240 VAC		
17	Operating Condition	-10°C to 50°C or better		
18	Humidity	upto 90%		
19	Certification	OEM should have BIS, Onvif		
20	Camera and NVR systems models must support Video management system (VMS)			
21	The MAC address of all products should be registered in the name of the OEM.			

22	Camera & NVR should be from the same OEM for smooth integration.		
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D)		Compliance (Yes/No)	Name of product Datasheet file and page number
	Enterprise-grade Surveillance Hard disk for NVR		
1	Size: 10 TB		
2	RPM: 7200		
3	Cache, Multi-segmented (MB): 256		
4	Transfer Rate up to: 263MB/s		
5	Form Factor: 3.5-Inch		
6	Enterprise-grade		
7	Surveillance-type Hard Disk		
8	Average Latency (ms): 4.16		
9	OEM Warranty: 5 years		

E)		Compliance (Yes/No)	Name of product Datasheet file and page number
	24 PORT POE+ Switch with RACK Mounting Kit		
1	Must be capable of running on the full load of 24 Cameras and other connected accessories and connections.		
2	24 10/100/1000 Mbps gigabit auto ethernet ports		
3	2 SFP ports		
4	Must be designed for running 24x7x365 days.		
5	Lighting Protection		
6	Flow control for protection against loss data		
7	Should support Functions: VLAN, EXTEND, QoS, Auto MDI/MDI-X crossover on all ports PoE Functionality: IEEE 802.3af/at compliant Switching Fabric throughput: minimum 52 Gbps Power output: Up to 30 W per PoE port		

IV) TECHNICAL SPECIFICATIONS OF OTHER ITEMS:

1. All other items not mentioned in the above list of PRIMARY ITEMS but are essential for implementing the CCTV surveillance system will fall under this category.
2. Structured network cabling from Tyco/TE Connectivity/CommScope and UPS from APC/Vertiv/Numeric are being used in the existing networking infrastructure of the Institute. Specifications and Quality of all proposed items under this category must be equivalent or higher to the existing networking infrastructure of the Institute for smooth connectivity. Few Model/Part Nos. of existing Network items are mentioned below for reference:

CAT6A Patch Panel -24Port from CommScope (760206839), 9U Wall Mount Rack from APW (WMLC-A40g.SPL), Cable from TE Connectivity (2171014-1), Patch cord from CommScope (6645-2-825-04), etc.

- The make, model, and specifications of the items under this category must be checked and verified by the ICT unit of the Institute before supply.

PRICE BID				
NIT No. NIBMG/CCTV/2024-25/011			Date : 04-07-2024	
	SUPPLY INSTALLATION & COMMISSIONING OF THE FOLLOWING ITEMS	QTY.	UNIT PRICE INCLUDING GST (RS.)	TOTAL PRICE INCLUDING GST(RS.)
I)	PRIMARY ITEMS			
1.	DOME Camera - 4 MP	107		
2.	BULLET Camera - 4 MP	43		
3.	NVR 32 CHANNELS FOR MINIMUM 4 DISKS	7		
4.	10 TB ENTERPRISE GRADE HARD DISK FOR SURVEILLANCE	16		
5.	24 PORT POE+ SWITCH	9		
II)	OTHER ITEMS	QTY.		
6.	UPS – SMALL & PORTABLE WITH A MINIMUM 10 MINUTE BACKUP ON FULL LOAD OF EACH RACK	8		
7.	RACK 9U RACK LOADED WITH FAN, PDU & ALL ACCESSORIES	8		
8.	UTP PATCH PANEL 24 PORT FULLY LOADED	9		
9.	CAT 6 CABLE PER MTR (including supply and installation with casing, capping & piping) *	6000*		
10.	1 MTR RJ 45 PATCH CARD	225		
11.	RJ 45 CCA CONNECTOR FOR CAMERA SIDE	150		
12.	PVC BOX FOR FIXING CAMERAS	150		
13.	Installation, commissioning documentation changes	1 lot		
	The cost of any other items which are not mentioned in the BOQ but are essential for the completion of the project must be included in the price bid. (if required) Please note: The institute will not pay any cost for extra items, if required, for completion of this project.			
	All Total including GST in INR			
*Quantity will be finalised based on actual measurement and payment will be made accordingly				